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TITLE : COPPER ALLOY FOR MULTIPOLAR CONNECTOR

ABSTRACT : PURPOSE: To develop a copper alloy having excellent electroconductivity and migration resistance by adding specific amt. of Zn to a phosphor bronze copper alloy for a multipolar connector or furthermore adding specific auxiliary components thereto.

CONSTITUTION: As the titled copper alloy, 0.6-6wt.% Zn or furthermore, as the auxiliary components, ≤ 0.6 wt.% total of one or more kinds among Ni, Co, Fe and Zr are added to the low Sn phosphor bronze consisting of 0.5-2.5wt.% Sn, 0.03-0.35wt.% P and the balance Cu. The copper alloy for a multipolar connector having low Sn content and having excellent strength, electroconductivity and migration resistance can be produced at low cost without impairing the excellent characteristics of the phosphor bronze alloy.

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0.6 - 6 Zn
 $\leq 0.6 \Sigma (\text{Ni, Fe})$
0.5 - 2.5 Sn
0.03 - 0.35 P
O
C
S
Fe

Cu